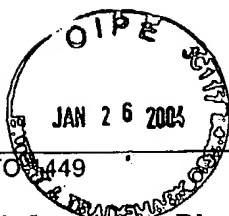


PTO-1449		Application No. 09/719,591		Applicant(s) Mohammed N. Islam et al.			
Information Disclosure Citation in an Application		Docket Number 069204.0163		Group Art Unit 2633	Filing Date December 12, 2000		
		U.S. PATENT DOCUMENTS					
		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
<input checked="" type="checkbox"/>	A	5,831,754	11/03/1998	Nakano	359	161	05/01/1995
	B						
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	D						
	E						
	F						
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	H						
	I						
	J						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	M						
NON-PATENT DOCUMENTS							
		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)					DATE
<input checked="" type="checkbox"/>	N	E.M. Dianov, "Raman fiber amplifiers," Fiber Optics Research Center at the General Physics Institute of the Russian Academy of Sciences, Moscow, Russia, 5 pages					© 1999
<input checked="" type="checkbox"/>	O	A.K. Srivastava, et al., "System Margin Enhancement with Raman Gain in Multi-Span WDM Transmission," Technical Digest, OFC '99, 3 pages.					Friday 2/26/1999
	P	PCT, Written Opinion, International Preliminary Examining Authority," 6 pages.					10 Mar 2003
	Q						
	R						
	S						
	T						
	U						
	V						
EXAMINER <i>Deandra Hughes</i>				DATE CONSIDERED <i>Aug 2, 2007</i>			
EXAMINER Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.							



PTO 449 <b>Information Disclosure Citation in an Application</b>	Application No.	Applicant(s)	
	09/719,591	Mohammed N. Islam et al.	
	Docket Number	Group Art Unit	Filing Date
	069204.0163		December 12, 2000

## U.S. PATENT DOCUMENTS

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<input checked="" type="checkbox"/>	A	6,147,794	11/14/2000	Stentz	359	334	02/04/1999
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	L						
	M						

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Technology Center 2600

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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	O							
	P							

## NON-PATENT DOCUMENTS

		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
<input checked="" type="checkbox"/>	Q	S.A.E. Lewis, et al., "1.4W saturated output power from a fibre Raman amplifier," OFC., 3 pages	OFC. 1999
		PCT Notification of Transmittal of the International Search Report or the Declaration, 5 pages	01/21/2003
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EXAMINER

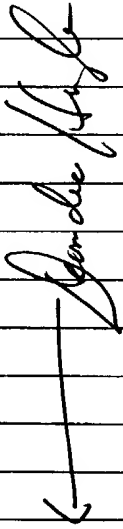
*Juanita Hughes*

DATE CONSIDERED

*Aug 2, 2004*

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

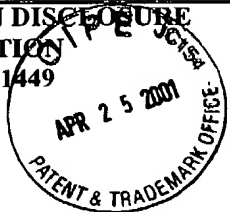
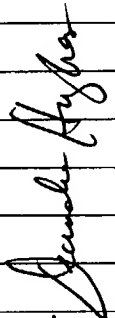

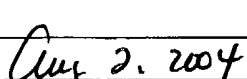
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	DOCUMENT NO.	DATE	NAME	CLASS	FILING DATE	
	6,219,06 B1	4-17-2001	Terahara	359	7-21-1998	
B	6,263,139 B1	7-17-2001	Kawakami et al.	385	11-9-1999	
C	6,356,383 B1	3-12-2002	Cornwell, Jr. et al.	359	3-31-2000	
D	6,404,964 B1	6-11-2002	Bhagavatula et al.	385	4-14-1999	
E	6,414,786 B1	7-2-2002	Foursa	359	3-27-2000	
F	6,417,959 B1	7-9-2002	Bolshtyansky et al.	359	2-1-2001	
G	6,437,906 B1	8-20-2002	Di Pasquale et al.	359	11-22-2000	
H	2002/0001123 A1	1-3-2002	Miyakawa et al.	359	6-21-2001	
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P	1 180 860 A1	19.02.2001	EP	H04B	10/17	X
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R						
S						
	<b>DOCUMENT (Including Author, Title, Source, and Pertinent Pages)</b>					<b>DATE</b>
T	Hiroji Masuda and Shingo Kawal, Ultra Wide-Band Raman Amplification With A Total Gain-Bandwidth of 132 nm Of Two Gain-Bands Around 1.5 $\mu$ m, ECOC '99, Nice, France, pp. 11-146 - 11-147.					26-30 September 1999
U	Sugizaki, et al., Slope Compensating DCF for S-band Raman Amplifier, OSA TOPS Vol. 60, Optical Amplifiers and Their Applications, Nigel Jolley, John D. Minelly, and Yoshiaki Nakano, eds., 2001 Optical Society of America, pp. 49-53.					2001
V	Vasilyev, et al., Pump intensity noise and ASE spectrum of Raman amplification in non-zero dispersion-shifted fibers, reprinted from the Optical Amplifiers and Their Applications Conference, 2001 Technical Digest, 2001 Optical Society of America, pp. 57-59.					2001
W						
X						
EXAMINER <i>DEANORA M. HUGHES</i>			DATE CONSIDERED <i>Aug 2, 2004</i>			
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.						
U.S. PATENT AND TRADEMARK OFFICE						

INFORMATION DISCLOSURE CITATION PTO-1449		ATTY. DOCKET NO. 20434-736		SERIAL NO. 09/719,591			
APPLICANT Islam		FILING DATE 12/12/00		GROUP Not Assigned			
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	4,685,107	8/4/87	Kafka et al.	372	6		
	4,740,974	4/26/88	Byron	372	3		
	5,039,199	8/13/91	Mollenauer et al.	359	334		
	5,050,183	9/17/91	Duling, III	372	94		
	5,058,974	10/22/91	Mollenauer	385	27		
	5,117,196	5/26/92	Epworth et al.	359	333		
	5,132,976	7/21/92	Chung et al.	372	6		
	5,134,620	7/28/92	Huber	372	6		
	5,191,586	3/2/93	Huber	372	6		
	5,191,628	3/2/93	Byron	385	27		
	5,218,655	6/8/93	Mizrahi	385	39		
	5,268,910	12/7/93	Huber	372	6		
	5,295,016	3/15/94	Van Deventer	359	347		
	5,323,404	6/21/94	Grubb	372	6		
5,359,612	10/25/94	Dennis et al.	372	18			
5,450,427	9/12/95	Fermann et al.	372	18			
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EXAMINER <i>Randee Hughes</i>				DATE CONSIDERED <i>Aug 2, 2004</i>			

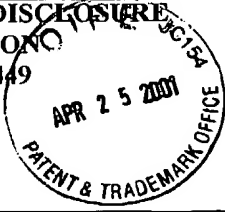
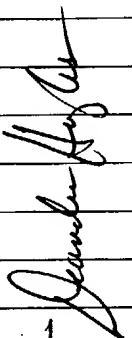
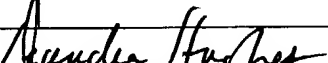
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	5,473,622	12/5/95	Grubb	372	6		
	5,477,555	12/19/95	Debeau et al.	372	25		
	5,479,291	12/26/95	Smith et al.	359	333		
	5,485,481	1/16/96	Ventrudo et al.	372	6		
	5,497,386	3/5/96	Fontana	372	18		
	5,504,771	4/2/96	Vahala et al.	372	94		
	5,513,194	4/30/96	Froberg et al.	372	6		
	5,521,738	5/28/96	Froberg	359	184		
	5,530,710	6/25/96	Grubb	372	6		
	5,541,947	7/30/96	Mourou et al.	372	25		
	5,542,011	7/30/96	Robinson	385	24		
	5,577,057	11/19/96	Friskien	372	18		
	5,617,434	4/1/97	Tamura et al.	372	6		
	5,623,508	4/22/97	Grubb et al.	372	3		
	5,659,559	8/19/97	Ventrudo et al.	372	6		
5,673,281	9/30/97	Byer	372	3			
5,734,665	3/31/98	Jeon et al.	372	6			
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EXAMINER <i>Sandra Hughes</i>				DATE CONSIDERED <i>Aug 2, 2004</i>			

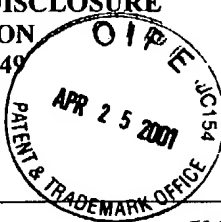
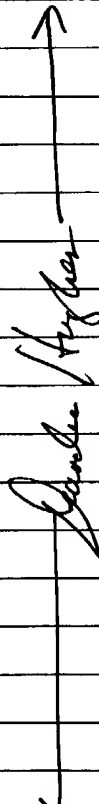
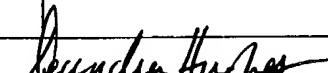
EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>INFORMATION DISCLOSURE CITATION PTO-1449</b>		ATTY. DOCKET NO. 20434-736		SERIAL NO. 09/719,591			
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		5,838,700	11/17/98	Dianov et al.	372	6	
		5,841,797	11/24/98	Ventrudo et al.	372	6	
		5,847,862	12/8/98	Chraplyvy et al.	359	337	
		5,861,981	1/19/99	Jabr	359	341	
		5,880,866	3/9/99	Stolen	359	138	
		5,883,736	3/16/99	Oshima et al.	359	341	
		5,887,093	3/23/99	Hansen et al.	385	27	
		5,920,423	7/6/99	Grubb et al.	359	341	
		5,768,012	6/16/98	Zanoni et al.	359	341	
		5,673,280	9/30/97	Grubb et al.	372	3	
		5,659,644	8/19/97	DiGiovanni et al.	385	31	
		5,389,779	2/14/95	Betzig et al.	250	216	
		5,323,404	6/21/94	Grubb	372	6	
		5,226,049	7/6/93	Grubb	372	6	
	5,225,925	7/6/93	Grubb et al.	359	341		
	5,825,520	10/20/98	Huber	359	130		
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

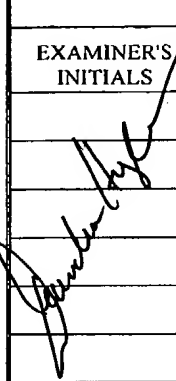






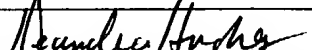
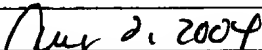
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	5,701,186	12/23/97	Huber	359	125		
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	5,557,442	9/17/96	Huber	359	179		
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	5,504,609	4/2/96	Alexander et al.	359	125		
	5,467,212	11/14/95	Huber	359	168		
	5,416,629	5/16/95	Huber	359	182		
	5,400,166	3/21/95	Huber	359	173		
	5,373,389	12/13/94	Huber	359	195		
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

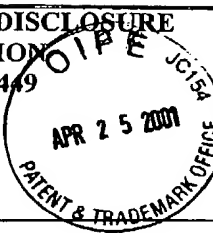









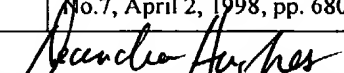
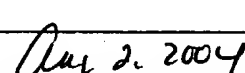
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	5,293,545	3/8/94	Huber	359	111		
	5,283,686	2/1/94	Huber	359	337		
	5,271,024	12/14/93	Huber	372	6		
	5,257,124	10/26/93	Glaab et al.	359	124		
	5,243,609	9/7/93	Huber	372	9		
	5,222,089	6/22/93	Huber	372	6		
	5,212,579	5/18/93	Huber et al.	359	182		
	5,210,631	5/11/93	Huber et al.	359	132		
	5,208,819	5/4/93	Huber	372	32		
	5,200,964	4/6/93	Huber	372	26		
	5,187,760	2/16/93	Huber	385	37		
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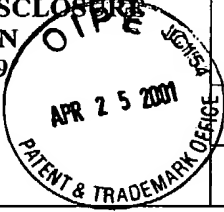











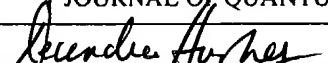


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	5,140,456	8/18/92	Huber	359	341	
	5,268,910	12/7/93	Huber	372	6	
	5,107,360	4/21/92	Huber	359	124	
	4,831,616	5/16/89	Huber	370	3	
<b>FOREIGN PATENT DOCUMENTS</b>						
<b>EXAMINER'S INITIALS</b>	<b>PATENT NO.</b>	<b>DATE</b>	<b>COUNTRY</b>	<b>CLASS</b>	<b>SUBCLASS</b>	<b>TRANSLATION</b> YES NO
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<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>						
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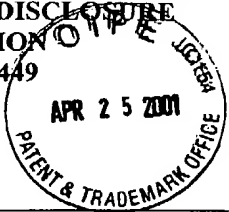
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>INFORMATION DISCLOSURE</b> <b>CITATION</b> <b>PTO-1449</b>		<b>ATTY. DOCKET NO.</b> 20434-736		<b>SERIAL NO.</b> 09/719,591		
		<b>APPLICANT</b> Islam				
		<b>FILING DATE</b> 12/12/00		<b>GROUP</b> Not Assigned		
<b>U.S. PATENT DOCUMENTS</b>						
<b>EXAMINER'S INITIALS</b>	<b>PATENT NO.</b>	<b>DATE</b>	<b>NAME</b>	<b>CLASS</b>	<b>SUBCLASS</b>	<b>FILING DATE</b>
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<b>EXAMINER'S INITIALS</b>	<b>PATENT NO.</b>	<b>DATE</b>	<b>COUNTRY</b>	<b>CLASS</b>	<b>SUBCLASS</b>	<b>TRANSLATION</b>
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						<input type="checkbox"/> <input type="checkbox"/>
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>						
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		<b>APPLICANT</b> Islam					
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<b>U.S. PATENT DOCUMENTS</b>							
<b>EXAMINER'S INITIALS</b>	<b>PATENT NO.</b>	<b>DATE</b>	<b>NAME</b>	<b>CLASS</b>	<b>SUBCLASS</b>		
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<b>EXAMINER'S INITIALS</b>	<b>PATENT NO.</b>	<b>DATE</b>	<b>COUNTRY</b>	<b>CLASS</b>	<b>SUBCLASS</b>	<b>TRANSLATION</b>	
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	Liaw, S-K et al., "Passive Gain-Equilized Wide-Band Erbium-Doped Fiber Amplifier Using Samarium-Doped Fiber", IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 8, No. 7, July 1996, pp. 879-881 ✓						
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	Mollenauer, L.F. et al., "Soliton Propagation in Long Fibers with Periodically Compensated Loss", IEEE JOURNAL OF QUANTUM ELECTRONICS, Vol. QE-22, No. 1, January 1986, pp. 157-173 ✓						
<b>EXAMINER</b> 		<b>DATE CONSIDERED</b> Aug 2, 2000					

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<b>APPLICANT</b> Islam							
<b>FILING DATE</b> 12/12/00		<b>GROUP</b> Not Assigned					
<b>FOREIGN PATENT DOCUMENTS</b>							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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<i>th</i>	0 936 761 A1	8/18/99	Europe	H04B	10/18	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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<i>th</i>	Marhic, M.E. et al., "Cancellation of Stimulated-Raman-Scattering Cross Talk in Wavelength-Division-Multiplexed Optical Communication Systems by Series or Parallel Techniques", OPTICAL SOCIETY OF AMERICA, 1998, Vol. 15, No. 3, pp. 958-963 ✓						
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<i>th</i>	Grandpierre, A.G. et al., "Theory of Stimulated Raman Scattering Cancellation in Wavelength-Division-Multiplexed Systems via Spectral Inversion", IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 11, No. 10, October 1999, pp. 1271-1273 ✓						
<i>th</i>	Chinn, S.R. "Analysis of Counter-Pumped Small-Signal Fibre Raman Amplifiers", ELECTRONICS LETTERS, Vol. 33, No. 7, March 27, 1997, pp. 607-608 ✓						
<i>th</i>	Stolen, R.H. et al., "Raman Gain in Glass Optical Waveguides", APPL. PHYS. LETT. Vol. 22, No. 6, March 15, 1973, pp. 276-278 ✓						
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<i>th</i>	Nissov, M. et al., "100 Gb/s (10x10Gb/s) WDM Transmission Over 7200 km Using Distributed Raman Amplification", CENTER FOR BROADBAND TELECOMMUNICATIONS, pp. 9-12 ✓						
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<b>EXAMINER</b> DEANDRA M. HUGHES		<b>DATE CONSIDERED</b> Aug 2, 2004					

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PTO-1449

**Information Disclosure Citation  
In an Application**

Application No.

09/719,591

Applicant(s)

Mohammed N. Islam et al.

Inventor Number

009204.0163

Group Art Unit

Filing Date

June 16, 1999

**U.S. PATENT DOCUMENTS**

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
1	A	4,616,898	10/14/1983	Hicks, Jr.	350	96.15	09/28/1983
	B	4,699,452	10/13/1987	Mollenauer et al.	350	96.16	10/28/1985
	C	4,932,739	06/12/1990	Islam	350	96.15	09/25/1989
	D	4,995,690	02/26/1991	Islam	350	96.15	04/24/1989
	E	5,020,050	05/28/1991	Islam	370	4	10/13/1989
	F	5,078,464	01/07/1992	Islam	385	122	11/07/1990
	G	5,101,456	03/31/1992	Islam	385	27	11/07/1990
	H	5,115,488	05/19/1992	Islam et al.	385	129	05/10/1991
	I	5,224,194	06/29/1993	Islam	385	122	04/02/1991
	J	5,369,519	11/29/1994	Islam	359	173	02/05/1993
	K	5,485,536	01/16/1996	Islam	385	31	10/13/1994
	L	5,559,920	09/24/1996	Chraplyvy et al.	385	123	03/01/1995
	M	5,629,795	05/13/1997	Suzuki et al.	359	337	08/31/1995
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	O	5,778,014	07/07/1998	Islam	372	6	12/23/1996

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	V	1 054 489 A2	22.11.2000	EP	H01S	3/067	X

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X	Lee et al., "Bidirectional transmission of 40 Gbit/s WDM signal over 100km dispersion shifted fibre," Electronics Letters, Vol. 34, No. 3, pp. 294-295	02/05/1998
Y	Okuno et al., "Generation of Ultra-Broad-Band Supercontinuum by Dispersion-Flattened and Decreasing Fiber," IEEE Photonics Technology Letters, Vol. 10, No. 1, pp. 72-74	01/1998
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EXAMINER

DEANDRA M. HUGHES

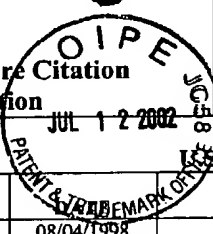
DATE CONSIDERED

July 2, 2004

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U.S. PATENT AND TRADEMARK OFFICE

DAL01:684706.1

PTO-1449		Application No. <b>09/719,591</b>		Applicant(s) <b>Mohammed N. Islam et al.</b>			
Information Disclosure Citation In an Application		Docket Number <b>069204.0163</b>	Group Art Unit	Filing Date <b>June 16, 1999</b>			
<div style="text-align: center;">  </div>							
		<b>DOCUMENT NO.</b>	<b>NAME</b>	<b>CLASS</b>	<b>SUBCLASS</b>	<b>FILING DATE</b>	
	A	5,790,300	08/04/1998	Zediker et al.	359	334	10/15/1996
	B	5,796,909	08/18/1998	Islam	385	147	02/14/1996
	C	5,815,518	09/29/1998	Reed et al.	372	6	06/06/1997
	D	5,905,838	05/18/1999	Judy et al.	385	123	02/18/1998
	E	5,959,750	09/28/1999	Eskildsen et al.	359	134	06/06/1996
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	L	6,101,024	08/08/2000	Islam et al.	359	334	03/24/1998
	M	6,151,160	11/21/2000	Ma et al.	359	341	10/05/1998
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	O	6,181,464 B1	01/??/2001	Kidorf et al.	359	334	12/01/1998
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		<b>DOCUMENT NO.</b>	<b>DATE</b>	<b>COUNTRY</b>	<b>CLASS</b>	<b>SUBCLASS</b>	<b>TRANSLATION</b>
	Q						
	R						
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	S	Nielsen et al., "3.28 Tb/s (82x40 Gb/s) transmission over 3 x 100 km nonzero-dispersion fiber using dual C- and L-band hybrid Raman/Erbium-doped inline amplifiers," OFCC 2000, pp. 1229-1231					03/7-10/2000
	T	Pending Patent Application; USSN 09/811,067, entitled "Method and System for Reducing Degredation of Optical Signal to Noise Ratio"					Filed 03/16/2001
	U	Pending Patent Application; USSN 09/811,103; entitled "System and Method for Wide Band Raman Amplification"					Filed 03/16/2001
	V	Pending Patent Application; USSN 09/916,454; entitled "System and Method for Controlling Noise Figure"					Filed 07/27/2001
	W	Pending Provisional Patent Application; USSN 60/310,147; entitled "Combined Laser Diode Raman Pumps; Active Gain Equalizers; Bi-Directional Raman Amplifiers"					Filed 05/00/2002
	X	Pending Patent Application; USSN 10/100,588; entitled "Electro-Absorption Based Modulation"					Filed 03/15/2002
	Y	Pending Patent Application; USSN 09/768,367, entitled "All Band Amplifier"					Filed 01/22/2001
	Z	Pending Patent Application; USSN 09/766,489; entitled "Nonlinear Polarization Amplifiers in Nonzero Dispersion Shifted Fiber"					Filed 01/19/2001
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	CC	Pending Patent Application; USSN 09/765,972; entitled "S+ Band Nonlinear Polarization Amplifiers"					Filed 01/19/2001
EXAMINER <i>DEANDRA M. HUGHES</i>				DATE CONSIDERED <i>Aug 2, 2004</i>			
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PTO-1449

**Information Disclosure Citation  
In an Application**

Application No.

Applicant(s)

09/719,591

Mohammed N. Islam et al.

Serial Number

Group Art Unit

Filing Date

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June 16, 1999

**U.S. PATENT DOCUMENTS**

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
97	A	6,191,877 B1	02/20/2001	Chraplyvy et al.	359	124	07/15/1996
	B	6,236,496 B1	05/22/2001	Yamada et al.	359	341	12/10/1997
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	K	6,381,391 B1	04/30/2002	Islam et al.	385	123	12/03/1999

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		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
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**DOCUMENT (Including Author, Title, Source, and Pertinent Pages)**

		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
	N	Pending Patent Application; USSN 10/003,199; entitled "Broadband Amplifier and Communication System"	Filed 10/30/2001
	O	Pending Patent Application; USSN 10/007,643; entitled "Multi-Stage Optical Amplifier and Broadband Communication System"	Filed 10/30/2001
	P	Pending Patent Application; USSN 10/014,839; entitled "Multi-Stage Optical Amplifier and Broadband Communication System"	Filed 12/10/2001
	Q	Pending Patent Application; USSN 09/990,142; entitled "Broadband Amplifier and Communication System"	Filed 11/20/2001
	R	Pending Patent Application; USSN 10/100,591; entitled "System and Method for Managing System Margin"	Filed 03/15/2002
	S	Pending Patent Application; USSN 10/100,587; entitled "Fiber Optic Transmission System with Low Cost Transmitter Compensation"	Filed 03/15/2002
	T	Pending Patent Application; USSN 10/116,487; entitled "Fiber Optic Transmission System for a Metropolitan Area Network"	Filed 04/03/2002
	U	Pending Patent Application; USSN 10/100,589; entitled "System and Method for Dispersion Compensation in an Optical Communication System"	Filed 03/15/2002
	V	Pending Patent Application; USSN 10/100,700; entitled "Rack System for an End Terminal in an Optical Communication Network"	Filed 03/15/2002
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DATE CONSIDERED

*Aug 2, 2004*

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

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